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Nearly 5.7 million employees work in engineering enterprises in the UK, representing just over 19% of total UK employment in all registered enterprises. As a proportion of total employment, this has remained relatively consistent for the last three years.

It has been forecast that engineering employers will need to recruit 265,000 skilled entrants annually to meet demand for engineering enterprises through to 2024, this figure has increased drastically from last year’s forecast of 182,00.

It is estimated that engineering contributed £486 billion to UK GDP in 2015 – around 26% of the total and representing 2.3% growth since 2014. Source: http://www.engineeringuk.com/media/1356/enguk_report_2017_synopsis.pdf

According to The Engineer’s 2018 Salary Survey, the average salary for all engineers is £47,896, a slight decrease on last year’s survey average of £48,197. The average salary in the oil and gas sector, the highest-paid sector in engineering, is £53,900.

The Engineer Salary Survey 2018 – The average salary for all engineers in 2018 is £47,896, a slight decrease on last year’s average of £48,197. This compares reasonably well with other professions in the UK, sitting below those in strategy and consultancy on £57,554, qualified accountants on £53,887, and those in banking on £52,666, but above those in financial services on £47,250.

The full survey results can and report be viewed here: https://www.theengineer.co.uk/engineer-salary-uk-2018/
Who are the major employers?

- Honda
- Siemens
- Thales
- CAF
- Airbus
- Bombardier
- BAE Systems
- E.On
- Network Rail
- BMW
- Nissan
- Crossrail
- GE
- eDf Energy
- CTP
Who are the major employers?

**Jaguar Land Rover**  JLR work closely with CTP to promote vacancies to Service Leavers and regularly attend events. JLR are seeking staff within product development which includes research, engineering, project management, quality and design. There are also engineering and supervisory roles in developing and manufacturing the motor engines, as well as various skilled trade roles, quality, logistics and engineering in the manufacture of the whole car.

**Honda**  Opened in 1985 and currently employing over 3,300 Associates, the plant in Swindon is Honda of the UK Manufacturing Ltd (HUM). Producing around 120,000 cars a year, it is the global production hub for the five door Honda Civic models. They also make the CRV and a range of diesel and petrol engines for other factories around the world. HUM is Honda’s flagship production facility in Europe, playing an important part of the global manufacturing operations. The company recently announced a £200 million investment in HUM to develop the facility into the global production and plan to attract new people to the team [http://www.hondamanufacturingcareers.co.uk/index.php](http://www.hondamanufacturingcareers.co.uk/index.php)

**Nissan**  Currently employs more than 4500 staff and the plant in Sunderland was extended in late 2015 to accommodate production of the Infinity Q30

**BMW**  employs 19,000 staff in the UK manufacturing and across the dealer network. It has also seen major increase in sales in the past couple of years resulting in more apprenticeship and experienced engineer roles including the mini plant based in Swindon and the Rolls Royce site in Chichester. [https://www.bmwgroup.com/en/careers.html](https://www.bmwgroup.com/en/careers.html)
Airbus directly employs 13,000 staff in the UK and many more through the supply chain. Airbus Wing Work employs staff at Filton working on the design, engineering and support of Airbus wings, fuel systems and landing gear. Assembly takes place at the Broughton site which recruits for manufacturing and engineering roles. [http://www.airbus.com/work/](http://www.airbus.com/work/)

Boeing is a major manufacturer of commercial jetliners. Boeing Defence, Space and Security produce communication systems for military and government customers. Boeing directly employs 1700 staff throughout the UK, along with many more subcontractor staff. Boeing recruit for a wide variety of roles including design, planning, and service engineers, systems engineers, quality and project managers. [https://jobs.boeing.com/category/engineering-jobs/185/11125/1](https://jobs.boeing.com/category/engineering-jobs/185/11125/1)

GKN Aerospace employs around 12,000 staff and their Bristol site produces parts for both Airbus and Boeing. They also operate sites in Portsmouth, Isle of Wight and Yeovil. [http://www.gkn.com/aerospace/careers/Pages/default.aspx](http://www.gkn.com/aerospace/careers/Pages/default.aspx)

Rolls Royce employs 16,000 staff in the UK, manufacturing engines for the civil and defence market and the growing nuclear business. Rolls Royce recruit engineers from all disciplines of electrical, electronic, instrumentation and sensor engineering to specify, design, develop, test and support control, instrumentation and protection systems and equipment. [http://www.rolls-royce.com/careers.aspx](http://www.rolls-royce.com/careers.aspx)

BAE Systems design and manufacture fixed wing combat and training aircraft for the UK and overseas defence market, and are currently working on the Typhoon fleet. They have ongoing recruitment requirements across sites, mainly in Warton, and RAF Conningsby for engineers across a range of disciplines. [https://www.ctp.org.uk/job-finding/directory/bae-systems/latest-jobs](https://www.ctp.org.uk/job-finding/directory/bae-systems/latest-jobs)
Skills, Qualifications & Training

Skills and Qualifications
Many Service leavers seeking employment within engineering will have completed an engineering apprenticeship or have some form of relevant experience gained through the Armed Forces. This experience is often accredited and most Service leavers will have a civilian recognised qualification. The IET and IMECE (see below) will assist Service personnel in identifying how their experience relates to civilian qualifications and work towards professional recognition awards.

There are opportunities for Service leavers without an engineering background to enter the industry, through an apprenticeship scheme with an Employer, through a local college, or alternatively through short resettlement courses which provide recognised civilian qualifications. For those without industry experience, it is always recommended that a period of work attachment be completed with a potential employer, in order to put into practice the skills gained during training.

Organisations who can assist with identifying training routes and professional recognition include:

**SEMTA**  http://www.semta.org.uk/careers
The Sector Skills Council for Science, Engineering and Manufacturing Technologies are an Employer led organisation who work with companies to identify skills gaps and opportunities to increase productivity, particularly through training and apprenticeships

**IET**  http://www.theiet.org/armed-forces/
The Institution of Engineering and Technology provide advice and guidance to those in the industry and those considering a career within engineering. The IET have a membership scheme and Service personnel can be advised on career progression as well as relevant qualifications and professional recognition in the industry.

**IMechE**  http://www.imeche.org/membership-registration/become-a-member/armed-forces-and-mod
The Institution of Mechanical Engineers host workshops, seminars and various events throughout the UK and also offer a membership scheme with professional recognition routes to become an Engineering Technician or Incorporated or Chartered Engineer.

**SoE**  http://www.soe.org.uk/join-soe/case-studies/engineers-in-the-armed-forces/
Society of Operations Engineers (SOE) represents over 3,000 individuals employed within the Armed Forces. They Support engineering professionals and provide training programmes across the Army, RAF and Royal Navy.
Training

**A Craftsperson or Advanced Craftsperson**
Will normally have completed an engineering apprenticeship and will undertake day to day semi-skilled maintenance activities. Individuals would have training in electrical or mechanical crafts, control and instrumentation or plant and process. This is likely to include an Engineering Technician / Leading Engineering Technician / Marine Engineering Mechanic from the Royal Navy; Aircraft Technician/SAC/Weapon Technician or General Technician/Cpl from the RAF or Lance Corporal/Craftsman REME/Sapper from the Army.

**An Engineer**
Will generally have an HND or Foundation Degree in an Engineering discipline, and a Health and Safety qualification such as IOSH. The engineer will be responsible for engineering maintenance and may be a technical specialist. They would be responsible for day to day maintenance and also overhauls, projects and modifications. They would be a logical / analytical thinker with problem solving skills, and may have some finance or budget responsibilities. This is likely to include Chief Petty Officer /Warrant Officer Engineering Technicians from the Royal Navy; Chief Technician / Flight Sergeant /Warrant Officer from the RAF or a Staff Sergeant or Warrant Officer from the Army.

**An Engineering Manager**
Will often have an Engineering Degree, a substantial Health and Safety qualification such as NEBOSH and a Business Management qualification.
CTP Training

Below is a selection of the many courses that CTP has to offer for this industry, please contact your career Consultant or the Central Booking and Information Centre for more information.

CIV 02894 456200 or Mil: 9491 56200
Email: coursebookings@ctp.org.uk

Engineering Based Courses
For a full list please follow the link https://www.ctp.org.uk/resettlement-training/

- Domestic Electrical Installation Full Scope
- IEE 18th Edition Wiring Regulations
- Level 3 Award in Inspection and Testing – 8 days
- L3 Diploma in Gas Utilisation and ACS Assessments Phase - 35 Days + work attachment
- Programmable Logic Controllers
- Air Conditioning & Refrigeration Technology

CTP also offer a range of related training courses relevant to certain Engineering Management positions:
- Prince 2 – 5 days
- APM Project Management – 10 days
- NEBOSH General Certificate – 15 days
- NEBOSH Environmental Management – 6 days
- Lean Six Sigma (Green Belt Foundation)- 5 days
- NEBOSH General Certificate- 15 days
- Finance for non-Financial Managers- 2 days
- Potential Facilities Manager- 10 days
- BIFM Facilities Management L4 Award- 5 days

There are several CTP Preferred Suppliers who also offer relevant training for those considering trades such as HVAC, Plumbing, Gas and Electrical. Other suppliers may provide training towards a career in renewables, railway, signalling, locksmiths, marine engineering and oil and gas. http://www.ctp.org.uk/preferred-suppliers
News and Trends

Spanish Air Force to integrate Airbus drone maintenance
The Spanish Air Force will become the first customer for a new advanced aircraft maintenance system from Airbus that uses drones and augmented reality.

Drax pitches zero carbon vision for Humber industry
A consortium led by Drax Group has unveiled plans for transforming the Humber industrial region into a zero carbon cluster using hydrogen, biomass and carbon capture.

Thousands of jobs at risk at British Steel enters receivership
Around 5,000 direct jobs and thousands more in the supply chain are at risk following the High Court’s decision to wind up British Steel.

“Perfect reactor” produces “green” hydrogen
Newcastle team claims first thermodynamically-reversible chemical reactor producing hydrogen from water.

Robot team set sail for offshore wind farm inspection
The £4m Innovate UK-funded project, known as MIMRee (Multi-Platform Inspection, Maintenance and Repair in Extreme Environments), will develop and test an autonomous crew, consisting of an unmanned vessel, drone and crawling robot.

New funding announced for horizontal-launch spaceport study
The Launch UK development fund will allow prospective sites for spaceplane launch to apply for a share of a £2m fund, science minister Chris Skidmore announced yesterday. Several sites are already working on plans for horizontal spaceplane launch, capitalising on the development of the SABRE engine by Oxfordshire-based Reaction Engines, and the proposed Skylon single-stage-to-orbit aircraft the engine would power. Sites include Newquay in Cornwall, Campbelltown and Glasgow Prestwick in Scotland, and Snowdonia in Wales.

Coventry to be home of UK Battery Industrialisation Centre
The New £108m facility will provide world-leading testing facilities for new battery technology and train engineers in battery manufacturing.
News and Trends

Demand for engineering skills is set to increase over the coming years with the requirements for advanced technology as well as significant investment in the nuclear industry and renewable energy. Technology is constantly evolving and the demand for skilled technicians (those with level 3 qualifications or above) is expected to continue to increase. With new technology brings new skill requirements and so in more cases engineers are required to be multi-skilled. Those with an existing electrical or mechanical engineering background can skill up into areas such as renewables (wind turbines, solar panelling etc.), or towards information and communication technology, environmental sustainability or nuclear power.

News Headlines

Surgeons repair spinal defect on baby in the womb
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New RAF simulation tech allows multiple pilots to interact
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Electronic skin gives robots the human touch
• Read More

Five-seater electric air-taxi lifts off in Munich
• Read More

Battery boost for grid-scale storage
• Read More

UK engineers usher in farm 4.0 with agribot trial
• Read More

National Grid confirms first week of coal-free electricity since 1882
• Read More
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<th>Job Title</th>
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<tr>
<td>274341</td>
<td>Lifting Engineer Work Experience and Training</td>
<td>National Roles</td>
<td>30/08/2019</td>
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<tr>
<td>273962</td>
<td>Head of Licensing [Registrar]</td>
<td>London</td>
<td>28/06/2019</td>
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<tr>
<td>273454</td>
<td>Business Development Manager - Pearson Engineering (Defence, Engineering and BD experience required)</td>
<td>Newcastle Upon Tyne</td>
<td>28/06/2019</td>
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<tr>
<td>273982</td>
<td>Head of Licensing</td>
<td>London</td>
<td>28/06/2019</td>
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<td>273365</td>
<td>Software Engineer</td>
<td>Gloucester</td>
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<tr>
<td>272349</td>
<td>Machinery Engineer Surveyor</td>
<td>National Roles</td>
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<tr>
<td>273074</td>
<td>Skilled Fabricator Welder</td>
<td>West of England</td>
<td>30/06/2019</td>
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Remember to check RightJob regularly for new opportunities
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<td><a href="http://www.theengineer.co.uk">http://www.theengineer.co.uk</a></td>
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<td><a href="http://www.energyvoice.com">http://www.energyvoice.com</a></td>
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